1. A money assembly for combining cayges and first to: produce a forme, the human assembly commissing

a humar block fluited to include a fluite chamber having as inlet opening and as outles opening.

bypass means for conducting oxygen conside of the flame chamber to the outlet opening of the firms chamber,

n oxygen-emply housing including chamber means for receiving a summy of daygen and a line with adjacent in the humar block, the hase wall being formed to incindo first apentoro m en for dischaning oxygen from the chamber means into the flame chamber and second specime means for discharging oxyge chamber means into the bypers means 941.0

and second aperture means metaring the supply of oxygen. passing there through, and

means for discharging firet into the flame chamber formed : in the burner block, the discharging means including a norsis extending through the chamber means and the has apenne means formed in the base wall and supported by the base wall modecharge firel into the flame chamber.

13. A burner assembly for combining oxygen and fuel to produce a flame, burner assembly comprising

a burner block formed to include a flame chamber having an inlet opening and an outlet opening, bypass means for conducting oxygen outside of the flame chamber to

the outlet opening of the flame chamber,

an oxygen-supply housing including chamber means for receiving a supply of oxygen and a base wall adjacent to the burner block, the base wall being formed to include first aperture means for discharging oxygen from the chamber means into the flame chamber and second aperture means for discharging oxygen from the chamber means into the bypass means,

wherein the discharging means further includes a removable collar engaging the nozzle and threadedly engaging the oxygen-supply housing, and

The burner assembly of claim 12, wherein the oxygensupply housing includes an annular lip defining a cylindrical nozzle aperture receiving the nozzle and the removable collar includes an annular side\wall surrounding and engaging the annular lip.

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16. A homer assembly for combining oxygen and find to moduce a flame, the burner assembly comparing

a human block finded to include a flame chamber having an injet opening and an outlet opening.

bypess means for characting oxygen outside of the flame chamber to the outlet opening of the flame chamber,

means for discharging fuel into the flame chamber flumed in the burner block [and]

an oxygen samply bousing including chamber means for neceiving a supply of oxygen and a base well adjacent to the business block, the base well being farmed to include first apender means into the flame chamber and second apender means into the bypass means, said first and second aperture means metering the supply of oxygen passing there through, its oxygen

supply housing including a hollow shell appeared to the base wall to define the chamber means therebotween, wherein the hollow shell has a pyramidal shape and includes at least one triangular side well appended to the base well and fluored to include an oxygenadmission port, and

wherein the means for discharging fuel extends through the base wall

21. A humer assembly for combining oxygen and finel to produce a fisme, the humer assembly comprising

a burner block littimed to include a flame chamber having an inlet opening and an outlet opening.

bypass means for conducting oxygen outside of the flame chamber to the outlet opening of the flame chamber,

means for discharging fuel into the frame chamber formed in the burner block, and

an oxygen-empty housing incinding chamber means for receiving a supply of oxygen and a base wall stipscent to the burner block, the base wall being formed to include first aperture means for discharging oxygen from the chamber means for discharging oxygen from the chamber means into the plane chamber and second aperture means into the bypass means, Said first and second aperture means metering the supply of oxygen passing there

the oxygen supply housing including a brillow shell appended to the base wall to define the chamber means therebousen, wherein the hollow shell includes a up and a side wall extending between the up and the base wall, the tip is formed to include an apentum, and the discharging means includes a marker supported by the base wall and extending through the apentum formed in the tip and the first apentum means formed in the base wall and terminating in the inlet opening of the farms chamber.

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29. A burner assembly for combining oxygen and fuel to produce a flame, the burner assembly comprising

a humer block formed to include a flame chamber having an inlet opening and an butlet opening,

bypass means for conducting oxygen outside of the flame chamber to the outlet opening of the flame chamber, means for discharging fuel into the flame chamber formed

in the burner block, and

an oxygen-supply housing including chamber means for receiving a supply of oxygen and a base wall adjacent to the burner block, the base wall being formed to include first aperture means for discharging oxygen from the chamber means for discharging oxygen from the chamber means into the flame chamber and second aperture means into the bypass means, Said first and second aperture means metering the supply of oxygen passing there through and with the oxygen-

supply housing further including a hollow shell appended to the base wall to define the chamber means

36. A burner assembly for combining oxygen and fuel to produce a flame, the burner assembly comprising

a burner block formed to include a flame chamber having an inlet opening and an outlet opening.

bypass means for conducting oxygen outside of the flame chamber to the outlet opening of the flame chamber, means for discharging fuel into the flame chamber formed in the burner block.

an oxygen-supply housing including chamber means for receiving a supply of oxygen and a base wall adjacent to the burner block, the base wall being formed to include first aperture means for discharging oxygen from the chamber means into the flame chamber and second aperture means for discharging oxygen from the

chamber means into the bypass means, said first and second aperture means metering

the supply of oxygen passing there

through, the burner block

being formed to include at least one oxygen-admission port lying adjacent to the base wall and communicating with the second aperture means and the bypass means being coupled to the oxygen-admission port and arranged to pass through the burner block to conduct oxygen from the chamber means through the burner block to the outlet opening of the flame chamber, the second aperture means including a plurality of wall apertures formed in the base wall, the burner block being formed to include an oxygen-admission port communicating with each wall aperture, and frame means for supporting the burner block, the base wall being mounted on the frame means, the burner block being formed to include an annular channel around the inlet opening of the flame chamber, the frame means including means for covering the adjular channel to define an annular oxygen-conducting passageway therein and means for communicating oxygen discharged from the chamber means through the wall apertures to the annular oxygen-conducting passageway for delivery to the outlet opening of the flame chamber through the bypass means, and

wherein the means for discharging fuel is supported by the base wall.

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37. A burner assembly for combining oxygen and fuel to produce a flame, the burner assembly comprising

a burner block formed to include a flame chamber having an injet opening and an outlet opening,

bypass means for conducting oxygen outside of the flame chamber to the outlet opening of the flame chamber,

means for discharging fuel into the flame chamber formed in the burner block, and

an oxygen-supply housing including chamber means for receiving a supply of oxygen and a base wall adjacent to the humer block, the base wall being formed to include first aperture means for discharging oxygen from the chamber means for discharging oxygen from the chamber means for discharging oxygen from the chamber means into the bypass means said first

and second aperture means metering the Supply of oxygen passing

there through, the discharging

means including a fuel discharge nozzle and means for fixing the fuel discharge nozzle in the inlet opening, the fixing means being positioned to lie between the base wall and the burner block the fixing means being formed to include third aperture means for conducting oxygen discharged through the first aperture means into the flame chamber, the third aperture means defining a first-stage oxygen port having a first effective cross-sectional area and communicating oxygen from the chamber means defining a second-stage oxygen port having a second effective cross-sectional area less than the first effective cross-sectional area and communicating oxygen from the chamber means to the outlet opening of the flame chamber through the bypass means.